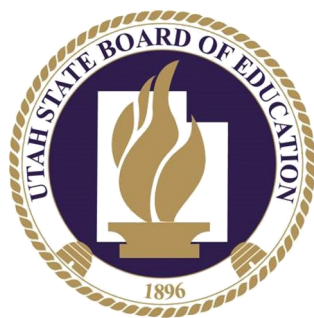


Application for the Utah State Board of Education



Secondary Science Endorsement

These endorsements are attached to an Educator License with a secondary area of concentration. Candidates with a current Utah Educator License who fully complete the requirements of an endorsement will receive it and be allowed to teach secondary science courses.

The Secondary Science Endorsement Application was updated on November 8, 2016 and any shortened requirement changes will become effective immediately. Endorsement changes that add to or further specify requirements will be fully implemented starting September 1, 2017. The Science Education Specialist will evaluate all applications with both old and new endorsement requirements until September 1, 2017 to allow for an easy transition.

If you have questions regarding these changes please contact the USBE Science Specialist.

Thank you



Application for the Utah State Board of Education Secondary Science Endorsement

This endorsement is attached to an Educator License with a secondary area of concentration. Candidates with a current Educator License who complete all of the requirements will receive an endorsement allowing them to teach secondary science courses.

Name: _____ Cactus ID: _____

Science Endorsement(s) to be considered: _____

Home Address: _____

Home Phone: _____ Work Phone: _____

E-mail Address: _____

District: _____ School: _____

- ☐ **FOR ENDORSEMENT(S) \$25.00**— Must have a current license* and all requirements must be completed
- ☐ **FOR STATE APPROVED ENDORSEMENT PLAN (SAEP) \$35.00**— Must have a current license*, be currently teaching in the endorsement area, and have completed 9+ credits of the science content course requirements (Teaching Methods in Science does not count as a science content course)
- ☐ **FOR ARL OR OUT OF STATE LICENSURE APPLICATION—NO ADDITIONAL FEE NECESSARY**

Date Submitted: _____ Date Received: _____

**Applicant must have a current Educator License with an Elementary (1-8) or Secondary area of concentration*

State Approved Endorsement Program (SAEP)

1. An approved SAEP for the Science Endorsement allows a secondary teacher to teach science classes while working on the endorsement— however until requirements all are met, they are not considered highly qualified in Science.
2. The applicant generally has two school years to complete all remaining requirements for the endorsement (the first school year of application plus one school year). All SEAPs end on October 1st after this period has ended.
3. The applicant must have a minimum of nine credits toward the science content course requirements completed before applying for the SAEP (Teaching Methods in Science does not count as a science content course).
4. The SAEP processing fee is often paid by the candidate's LEA (district or charter school).

Submitting the Application

1. Print and complete this Endorsement Application.
2. Include the processing fee for each application. **(\$25.00 for endorsement(s) and \$35.00 for SAEP)**
 - Applicant pays one application fee regardless of the number of endorsements they are requesting
 - For the SAEP application, the fee is often paid by the LEA (district or charter school)
3. Attach original documentation
 - **Transcripts:** Original copies of transcripts with courses highlighted is preferred; therefore, original transcripts received in sealed envelopes should be opened. Transcripts **MUST** be originals, printed on the college/university transcript paper. Photocopies of transcripts that an applicant may have received will not be accepted.
 - * Electronic transcripts are only accepted if they are sent directly from the college/university through a transcript clearinghouse to USBE at transcripts@schools.utah.gov. They **MUST** be requested before the endorsement application is submitted. *Electronic transcripts do not require the highlighting of courses.*
 - **Other Documentation:** Documentation for Safety Certification must be included in application. Required Praxis Exam Reports must be included if scores have not been reported to USBE and posted in Cactus record.
4. Send the (1) completed application, (2) original transcripts, and (3) processing fee to
 - Utah State Board of Education— Endorsements
250 East 500 South
P.O. Box 144200
Salt Lake City, UT 84114-4200

For more Information contact the science education specialist:

Ricky Scott | richard.scott@schools.utah.gov | (801) 538-7808 | 250 East 500 South, P.O. Box 144200 | Salt Lake City, UT 84114-4200

Choose a Content Specific Endorsement and Complete the Form

There are seven secondary science endorsements that can be issued to current Educator Licenses:

- | | | |
|-----------------------|--------------------------|-------------------------|
| 1. Biological Science | 4. Environmental Science | 7. Middle Level Science |
| 2. Chemistry | 5. Physical Science | |
| 3. Earth Science | 6. Physics | |

Locate the endorsement(s) being requested and use transcripts to document how all endorsement requirements have been met by filling in the corresponding information. Once all the endorsement boxes have been completed, highlight the courses on the original transcripts that will be included with the application.

Other Requirements

- Each row that represents a course requirement must be posted to a college/university transcript, be worth 3+ credits (unless otherwise stated), and must have been passed with a grade of **C or better** for the course to count towards endorsement requirements (classes with a grade of C- or below do **not** meet endorsement requirements).
- Each endorsement requires **Safety Certification** and a **Praxis Exam**. Praxis score must be at or above the Utah Passing Score (**UPS**) to qualify. Evidence of Safety Certification must be provided in endorsement documentation.

The following tables outline the *minimum* requirements for each content specific endorsement:

Content Specific Requirements for an Endorsement in Biological Science					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	BIOL	210	B-	2013	University of Utah
General Biology OR BOTH General Zoology and Botany					
Zoology (Vertebrates, Invertebrates, Mammals, etc.)					
Cell Biology, Microbiology, OR Molecular Biology					
Human Anatomy and/or Human Physiology					
Heredity and/or Genetics					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General/Inorganic Chemistry					
Evolutionary Biology					
Teaching Methods in Science					
Other Requirements		Date Accomplished			
Praxis Exam: Biology: Content Knowledge (0235/5235) - <i>UPS 149</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

Content Specific Requirements for an Endorsement in Chemistry					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	CHEM	1225	A-	2013	Utah Valley University
General/Inorganic Chemistry (Must be sequential courses)					
General/Inorganic Chemistry II (Must be sequential courses)					
Organic Chemistry					
Advanced or Applied Chemistry (Organic II, Physical, Biol., etc.)					
Advanced or Applied Chemistry (Organic II, Physical, Biol., etc.)					
Chemistry Lab for one course above (1+ Credits)					
Teaching Methods in Science					
Other Requirements		Date Accomplished			
Praxis Exam: Chemistry: Content Knowledge (0245/5245) - <i>UPS 151</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

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Content Specific Requirements for an Endorsement in Earth Science					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	GEO	6620	C	2013	Utah State University
Geology (General, Historical, or Physical Geology, etc.)					
Geology (General, Historical, or Physical Geology, etc.)					
General Physics					
General/Inorganic Chemistry					
Astronomy					
Ecology					
Weather/Meteorology, Climatology, OR Oceanography					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Earth and Space Sciences Content Knowledge (0571/5571) - <i>UPS 153</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

Content Specific Requirements for an Endorsement in Environmental Science					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	BIOL	3410	A	2012	Southern Utah Univ.
General Biology					
Zoology (Vertebrates, Invertebrates, Mammals, etc.) OR Botany (Plant Science, Field Botany, etc.)					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General Chemistry					
Evolutionary Biology					
Weather/Meteorology, Climatology, OR Oceanography					
Geology (General, Historical, or Physical Geology, etc.)					
Statistics					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Biology Content Knowledge (0235/5235) - <i>UPS 149</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

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Updated June 2016

Content Specific Requirements for an Endorsement in Physical Science					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	PHYS	2220	B+	2012	Dixie State University
General/Inorganic Chemistry I (Must be sequential courses)					
General/Inorganic Chemistry II (Must be sequential courses)					
Advanced or Applied Chemistry (Organic, Physical, Biol., etc.)					
General Physics I (Must be sequential courses)					
General Physics II (Must be sequential courses)					
Advanced or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Astronomy					
Weather/Meteorology OR Climatology					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Chemistry Content Knowledge (0245/5245) - UPS 151 OR Physics Content Knowledge (0265/5265) - UPS 136 *For NCLB Highly Qualified Status BOTH Exams must be taken					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

Content Specific Requirements for an Endorsement in Physics					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	PHYS	105	B+	2012	Brigham Young Univ.
General Physics I (Must be sequential courses)					
General Physics II (Must be sequential courses)					
Advanced or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Advanced or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Physics Lab for one course above (1+ Credits)					
Math through Introductory Calculus					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Physics Content Knowledge (0265/5265) - UPS 136					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

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To fulfill the requirements for a Middle Level Science endorsement there are two pathways applicants can apply for:

Content Specific Requirements for an Endorsement in Middle Level Science (Pathway 1) Current Utah Licensed Teachers. ARL/Initial Licensure, and Out of State License Applicants are eligible for this Pathway					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	TL	5370	B+	2012	Weber State University
Teaching Methods in Science (Met through demonstration of previous science endorsement. Does not require transcript.)					
Other Requirements		Date Accomplished			
Praxis Exam: General Science Content Knowledge (0435/5435) - UPS 166					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					
Completion of a Content Specific Science Endorsement		Please mark the endorsement(s) currently earned:			
Biological Sciences Endorsement					
Chemistry Endorsement					
Earth Science Endorsement					
Environmental Science Endorsement					
Physical Science Endorsement					
Physics Endorsement					

Content Specific Requirements for an Endorsement in Middle Level Science (Pathway 2) Current Utah Licensed Teachers and Out of State License Applicants are eligible for this Pathway (ARL/Initial Licensure are NOT eligible)					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
Example	TL	5370	B+	2012	University of Utah
General Biology					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General/Inorganic Chemistry					
General Physics					
Astronomy					
Earth Systems Science OR Weather/Meteorology					
Geology (Historical, Structural, Physical Geology, etc.)					
Teaching Methods in Science					
Other Requirements		Date Accomplished			
Praxis Exam: General Science Content Knowledge (0435/5435) - UPS 166					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in OnTrack					

For more Information contact the science education specialist:

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Updated June 2016

Requirements for Science Core Teaching Assignments

7th and 8th Grade Science

The following boxes outline the core courses taught for junior high credit and the necessary requirements of that assignment.

Core Teaching Assignment	Teaching Requirements
7th Grade	Middle Level Science Endorsement
8th Grade	Middle Level Science Endorsement

High School Science

The following boxes outline the core courses taught for high school credit and the necessary requirements of that assignment.

Core Teaching Assignment	Teaching Requirements
Earth Science	Earth Science Endorsement OR Environmental Science Endorsement
Biology	Biological Science Endorsement
Chemistry	Chemistry Endorsement OR Physical Science Endorsement
Physics	Physics Endorsement OR Physical Science Endorsement
AP Biology	Biological Science Endorsement
AP Chemistry	Chemistry Endorsement
AP Physics	Physics Endorsement
AP Environmental Science	Environmental Science Endorsement

For more information contact the science education specialist:

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